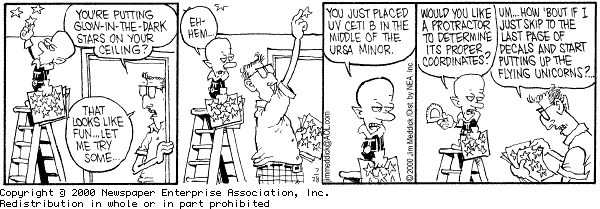
**Astronomy**



Columbus High School, Fall 2013

Instructor: Mr. Richardson

Class wiki: <http://columbusastronomy.wikispaces.com/>

Welcome to Astronomy. This course is an overview of everything. Astronomy is the study of the Universe over the history of time. The whole Universe will be squeezed into one semester.

The goal of this course is to introduce you to the thinking that went behind the discoveries of how stars work, how planets formed, and other great astronomical discoveries. This course is less about memorizing terms than it is about the ultimate application of the scientific method.

CLASSROOM RULES

Everything in the student handbook applies to the classroom. The following offer some specifics for this class and also reiterate what is in the handbook.

* *The general rule of thumb is that distractions from learning physics will not be tolerated*.
* Once class begins, there are no passes out of class except for emergencies. If more than a couple of instances occur, arrangements will be made to make up missed time after school.
* No sleeping in class.
* No food or drink in class, and especially no gum or candy.
* No cell phones in class unless specifically instructed. Any other technology must be used for classroom activities with no game playing or other distracting uses.

CHEATING

Each student is responsible for submitting their own work to include homework, labs, quizzes, and exams. In some cases, groups of students will divide up work to be completed on a single project and the division of work will be made clear in class. Copying answers from other students or the internet and submitting as personal work is cheating. Violators will be sent to the Honor Council and the policies in the student handbook followed with no exceptions.

PASSES OUT OF CLASS

Do not plan on leaving class. Use the restroom between classes. If you need to leave class more than once during a nine week period, you will be asked to come after school to make up missed time.

ABSCENCES

If you have an excused absence, it is your responsibility to complete all work and get all missed work or notes to prepare for any future tests or quizzes. You must make arrangements to make up any work you miss due to excused absences. By not making such arrangements, you will receive no credit for the missed work (or tests/quizzes). Any missed work will be made up in a timely manner as specified in the student handbook. Do not assume I will come to you after an absence to “give” you the missed work – I may forget. Either way, it is your responsibility.

ACADEMICS

Everyone will be expected to have a 1 inch presentation binder. You will keep all your lecture notes, homework, laboratory reports, and other class related materials in this notebook. The notebook may be collected on occasion with at least 24 hours notice.

For Astronomy, the notebook will be an organizational tool mostly. The assigned homeworks will be assigned and collected. Below is the breakdown of your grade composition to be applied approximately to each 9 weeks:

*Major Tests* 40%

*Quizzes & Homework* 20%

*Labs* 20%

*Final Evaluations* 20%

TESTS

Tests will be given after covering several chapters. Prior to each test, there will be review sessions and practice elements to prepare.

QUIZZES & HOMEWORK

Homework typically comes from our text and come in the form of review questions and problems. The review questions should be answered in complete sentences. Problems should show all mathematical steps with some explanation.

After each homework set, you will be given a chapter quiz. These quizzes can consist of a short answer question from concepts in the chapter and/or an analytical part similar to the homework problems.

The day a homework set is due, the answers to each question and problem will be reviewed. Therefore, NO LATE HOMEWORK. If you are absent, try to have a classmate turn them in for you. Once the homework solutions have been available, a quiz on that chapter will be given usually the next day.

The lowest quiz or homework grade from each 9 weeks period will be dropped except for grades of zero where cheating or suspension was involved.

LABS

Astronomy experiments are not completely limited to dark skies. Physics equipment, computer simulations, and solar studies can all be completed in our science labs. Project will also be included in this category, which are like extended labs.

FINAL EVALUATIONS Comprehensive Astronomy exam plus the MCSD SLO exam.

Homework Problems for Astronomy *Columbus High School*

|  |  |  |
| --- | --- | --- |
| **Chapter** | **Review Questions** | **Problems** |
| 1 | 2,10,14,16,18,20 | 6,10,12 |
| 2 | 2,4,10,12,16,20 | 4,8,12 |
| 3 | 2,4,6,8,14,16,18 | 2,14 |
| 4 | 2,12,18,20 | 8,12 |
| 5 | 2,4,6,10,14,18 | Telescope Labs |
| 6 | 4,10,14,16,18 | 2,4,7 |
| 7 | 2,4,10,16,18,20 | 4,7 |
| 8 | 2,4,6,8,10,12 | 2,4 |
| 9 | 4,6,8,14,16,18 | 8,10 |
| 10 | 6,8,12,16,18 | 2,6 |
| 11 | 4,6,8,10,14,20 | 12,14 |
| 12 | 4,6,10,14,16 | 3 |
| 13 | 2,6,10,16 | 4 |
| 14 | 2,6,8,10,16,20 | 6 |
| 16 | 6,8,12,16,20 | 8 |
| 17 | 2,4,6,8,10,12,16,18 | H-R diagram lab |
| 19 | 2,4,6,8,10,12 | 6 |
| 20 | 2,6,8,12,14,18 | 6 |
| 21 | 4,6,8,10,12,14 | 9 |
| 22 | 2,4,6,10,12,18 | 8 |
| 23 | 2,6,10,14,16,18 | 5 |
| 24 | 4,812,14,16 | 12 |

**Background Survey**

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ book no.\_\_\_\_\_\_\_\_\_\_\_\_\_\_

condition\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Email Account: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

home phone \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parents' names & work phone:

|  |  |  |
| --- | --- | --- |
|  | Father | Mother |
| Name |  |  |
| Place of Employment and what do they do? |  |  |
| Work Phone |  |  |

Activities: Studying physics, and...

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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COLLEGES YOU ARE CONSIDERING / WHAT DO YOU PLAN TO STUDY?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is your favorite subject(s)? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What is your least favorite? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Personal Expectations: Counts as a 100 point Quiz grade

In 250 words or less (one page typed), describe what you expect from this course. To put things in context, make the first half an introduction to who you are and how you approach life. In the latter half, discuss how what you expect from this class might contribute to who you are. Include some discussion of what you understand physics to be.

DUE Wednesday, August 9th. Late Penalty of 20 points per day late (including weekend days). Turn in early if at all possible.

|  |  |
| --- | --- |
| |  | | --- | | lost | |
| |  |  | | --- | --- | | Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Teacher: Richardson | |
| |  |  | | --- | --- | | Date Submitted: \_\_August 12, 2009\_\_\_\_\_\_ | Title of Work: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
| |  |  |  |  | | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | |  | **Criteria** | **Points** | | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | 0 | 1 | 2 | 3 |  | | **Organization**  **X 5** | Sequence of information is difficult to follow. | Reader has difficulty following work because student jumps around. | Student presents information in logical sequence which reader can follow. | Information in logical, interesting sequence which reader can follow. | Out of 15 | | **Content Knowledge**  **X 20** | Student does not have grasp of the assignment; No topics. | Student is uncomfortable with content and is able to demonstrate basic concepts. | Student is at ease with content, but fails to elaborate. | Student addresses all components of the assignment (more than required). | Out of 60 | | **Grammar and Spelling**  **X 5** | Work has four or more spelling errors and/or grammatical errors. | Presentation has three misspellings and/or grammatical errors. | Presentation has no more than two misspellings and/or grammatical errors. | Presentation has no misspellings or grammatical errors. | Out of 15 | | **Neatness**  **X 3.33** | Work is Illegible. | Work has three or four areas that are sloppy. | Work has one or two areas that are sloppy. | Work is neatly done. | Out of 10 | |  |  |  |  |  |  | |  |  |  |  | **Total---->** | Out of 100 | | |
| **Teacher Comments**: |